

# 5 SEQUENCE LISTING

Sequence 1

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

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   ttttgtaagt tgtgagata tctgttttgc aacaagatgg gctatatcta aataaagaca 4560
35  tgatcaaagg tttgatttaa aagtctggac t 4591

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<212> Type : DNA

<211> Length : 4591

SequenceName : CNHG0005 full-length cDNA

SequenceDescription :

40

Custom Codon

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Sequence Name : CNHG0005 full-length cDNA

45 Sequence 2

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

ggctgttcac tctacagcta gatggctcag cacagagaca gtcagtgcct ctgcacgcaa 60

50 gtcatgcaga aaagcaagag atctgggaag aactgtctcc caacatttg 109

<212> Type : DNA

<211> Length : 109

SequenceName : Exon 3 transcript

SequenceDescription :

55

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5 Custom Codon
-----
Sequence Name : Exon 3 transcript

Sequence 3
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10 <213> OrganismName : Homo sapiens
    <400> PreSequenceString :
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    <212> Type : DNA
15 <211> Length : 21
    SequenceName : Coding region of Exon 3
    SequenceDescription :

Custom Codon
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20 Sequence Name : Coding region of Exon 3

Sequence 4
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25 <213> OrganismName : Homo sapiens
    <400> PreSequenceString :
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15  atttttatgc tattgtactt tttttttgta agttgctgag atatctgttt tgcaacaaga   2400
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<212> Type : DNA

<211> Length : 2454

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20  SequenceName : Exon 10 transcript
    SequenceDescription :

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Custom Codon

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25  Sequence Name : Exon 10 transcript

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Sequence 5

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<213> OrganismName : Homo sapiens

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30  <400> PreSequenceString :

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   cattgtcagg tgctgttttg ttaagctct aactcaccac tggataacag gggaatgatg   120
   acaaccagcc cagccaggcc tgactcatca tggtcacatc cagccccac ccccgccaa   180
   ctaaccactg caggctcctc ttccagactc accagggggc ctcgaggccc cggcatctcc   240
35  cttggccctg ggtgtgggtt ttacaagact gtgtctttca tgacatcata g       291

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<212> Type : DNA

<211> Length : 291

SequenceName : Coding region of Exon 10

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40  SequenceDescription :

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Custom Codon

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Sequence Name : Coding region of Exon 10

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45

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Sequence 6

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

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   gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag   180
   gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gccctgagc   240
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   aagggtgtt cactctacag c 441
   <212> Type : DNA
   <211> Length : 441
       SequenceName : Coding region of CNGH0005trans1
10  SequenceDescription :

   Custom Codon
   -----
   Sequence Name : Coding region of CNGH0005trans1
15  Sequence 7
   -----
   <213> OrganismName : Homo sapiens
   <400> PreSequenceString :
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   gacgaccgag atgaggccca gcccgaggtg atcgtcctga gtcgcttga ccccgcgcat 1740
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   aacgagcagc cctacaccac ccagatcgac tacaaccca aggagcgggt gctgtacgcc 1980
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55  <211> Length : 2025

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5      SequenceName : Coding region of CNGH0005trans2
      SequenceDescription :

      Custom Codon
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10     Sequence Name : Coding region of CNGH0005trans2

      Sequence 8
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      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag      180
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      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctctctctc      360
      aaccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc      420
      aagctgcagt ccatggtgga tctcctggag ggcacctgt acagcatgga cttgatgaag      480
      gtgcacgcct acgtccacaa ggtggcctcc cagatgaaca cactggaaga gagcatcaag      540
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      ttgaggcact atgagaatca ctctgccatc atgctgggca tcaagaagga gctgtcccgc      660
      ctgggcctcc agctgctgca gaaggatgcc gccgcgccc ctgccacccc tgccacgggc      720
      actggtagca aggccaggg catgagccac tgcgcctggc cagcaaatgc tttttgtgca      780
      gaatacactt ctttcaggca ttgtcagggt ctgttttgtt taagctctaa ctacacctg      840
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      gccccacccc ccggccaact aaccactgca ggctcctctt ccagactcac cagggggcct      960
      cgaggccccc gcatctccct tggccctggg tgtgggtttt acaagactgt gtctttcatg      1020
      acatca                                          1026

      <212> Type : DNA
35     <211> Length : 1026
      SequenceName : Coding region of CNGH0005trans3
      SequenceDescription :

      Custom Codon
      -----
40     Sequence Name : Coding region of CNGH0005trans3

      Sequence 9
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45     <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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      aaggagcggg tcaagggaga gtatcaactc acatgggcct tgaaggccac gactgccta      120
      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag      180
50     gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gccctgagc      240
      aaggacgcgt gtagccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg      300
      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctctctctc      360
      aaccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc      420
      aagggtgtt cactctacag ctagatggct cagcacagag acagtcagtg cctctgcacg      480
55     caagtcatgc agaaaagcaa gagatctggg aagaactgtc tcccaacatt tg      532

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5      <212> Type : DNA
      <211> Length : 532
          SequenceName : Transcript of CNGH0005trans1
          SequenceDescription :

10     Custom Codon
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      Sequence Name : Transcript of CNGH0005trans1

15     Sequence 10
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      gagactgtga gctcggggcac tgactgccgc tgctcctgta ccgcacctcc ctctctcttc      360
25     aaccctctgt agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc      420
      aagctgcagt ccatggtgga tctcctggag ggcaccctgt acagcatgga cttgatgaag      480
      gtgcacgcct acgtccacaa ggtggcctcc cagatgaaca cactggaaga gagcatcaag      540
      gccaacctga gccggggagaa tgaggtggtg aaggacagcg tgcgccacct cagtgcagcag      600
      ttgaggcact atgagaatca ctctgccatc atgctgggca tcaagaagga gctgtcccgc      660
30     ctgggcctcc agctgctgca gaaggatgcc gccgcgcccc ctgccacccc tgccacgggc      720
      actggttagca agccccagga cacagctaga ggaaaaggca aggacatcag caagtatggc      780
      agtgtgcaga aaagctttgc agacagaggc ctcccaaac ctccaagga gaagctgctt      840
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35     aagcaggagg tgaccgaggc ggtggcagac aacaccctcc agggcacttc ctggctggag      1020
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40     accctccggg ctgtggacct ccctgtgagg caccacagct atgggcgcca cgaggagacc      1320
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      tacaagctac cctacaactg gatcggcaca ggccacgtgg tgtaccaggc cgccttctac      1500
      tacaaccgcg ccttcaccaa gaacatcatc aagtagcacc tacggcagcg cttcgtggcc      1560
45     tcctgggcmc tgctgcccga cgtggtatat gaggacacca caccttgga gtggcgcgga      1620
      cactcggaca ttgactttgc cgtggacgag agcggcctgt gggatcatcta ccccgccgtg      1680
      gacgaccgcg atgaggccca gcccgaggtg atcgtcctga gtcgcttgga ccccgcgcat      1740
      ctctccgtgc accgggagac cagtggaag acacggctgc ggcggaactc ctacgggaac      1800
      tgcttctggt tgtgcgcat cctgtatgcc gtggacacgt acaaccagca ggaaggccag      1860
50     gtcgcctacg ctttcgacac gcacacgggc accgacgcac gccccagct gccgttcttc      1920
      aacgagcacg cctacaccac ccagatcgac tacaacccca aggagcgggt gctgtacgcc      1980
      tgggacaatg gccaccagct cacctacacc ctccacttcg tgggtctga      2028
      <212> Type : DNA
      <211> Length : 2028
55     SequenceName : Transcript of CNGH0005trans2

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5                   SequenceDescription :

Custom Codon

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Sequence Name : Transcript of CNGH0005trans2

10

Sequence 11

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

15	atggcatatg caaaagccct gaggtctgcag tggagagagc cattgaaagg gaagggcaat	60
	aaggagcgtg tcaagggaga gtatcaactc acatgggcct tgaaggccac gcactgccta	120
	gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag	180
	gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gcccttgagc	240
	aaggacgctg gtacccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg	300
20	gagactgtga gctcgggcac tgactgccgc tgctctgtta ccgcacctcc ctctctcttc	360
	aaccctctgt agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc	420
	aagctgcagt ccatgggtga tctcctggag ggcacctgt acagcatgga cttgatgaag	480
	gtgcacgcct acgtccacaa ggtggcctcc cagatgaaca cactggaaga gagcatcaag	540
	gccaacctga gccgggagaa tgaggtggtg aaggacagcg tgcgccacct cagtgagcag	600
25	ttgaggcact atgagaatca ctctgccatc atgctgggca tcaagaagga gctgtcccgc	660
	ctgggcctcc agctgctgca gaaggatgcc gccgcgccc ctgccacccc tgccacgggc	720
	actggtagca aggccaggg catgagccac tgcgcctggc cagcaaatgc tttttgtgca	780
	gaatacactt ctttcaggca ttgtcaggtg ctgttttgtt taagctctaa ctcacctctg	840
	gaatacaggg gaatgatgac aaccagccca gccaggcctg actcatcatg gtcacatcca	900
30	gccccacccc ccggccaact aaccactgca ggctcctctt ccagactcac cagggggcct	960
	cgaggccccc gcatctccct tggccctggg tgtgggtttt acaagactgt gtctttcatg	1020
	acatcatagc ccaaccatgt gagaagaagg agaaggcccc cttttcttca ttaactgtaa	1080
	aaaaaggaaa gtgagaatag gctgattttt aaaagttaag gggcaagcag cattgcatte	1140
	tgggggaacg atcctggcca cagccgcca acaaacatc actaggcctc ttctgttttc	1200
35	atacccttgt aagtgggtta tgtggtgggt atggtcagtt ttttctttt tcttttcttt	1260
	tcttttttt gagacagagt ttctgtttt ttgccgggc tggaaatgca tggcgcgatt	1320
	cagctcactg caatctccgc ctccgggtt caagtgatc tctgcctta gcctcctgaa	1380
	aagctgggat tacagggccc tgccaccaag ccagctaatt tgtattttta gtagagacag	1440
	gatttcacca tgttggccag gccagtctca aactcctgac ctcaggtgat ccacctgcct	1500
40	çagcctccca gactgttggg attacaggca tgagccacca cgcctggcca gtttcttcat	1560
	tttacatatg gtcacattgg cgcctagaac agttaggtcg ctctgcacat aggcagttaa	1620
	gtggagaacc aggtttcaaa atcaggtaag aaaaccatca tcattaactg agcaccagct	1680
	gtgctaagcc tgccacgggc gtatccttgc agcctcaca cagtgggagg tctgtatcct	1740
	gaatgtcctc attttacaga tgaggacatt gaggagaaga gacttaccca ggctcacaca	1800
45	gcagctcagc ctgttccagg cgctggtcag tgcgtgttct ttgccaccag cctgtcactc	1860
	cagtggcagc tccagaaacg gaggtgttg cttttatccc taaactgcat ccacagagaa	1920
	gccccaaaga ggaggttggg gccagctcat aaaaagcctg aatgccaaag caaggagtgg	1980
	atgcctccag tcatatttag acaaagtca agtataaatt tacagagaaa aaattctaag	2040
	acagttggat gttgtcctgt tggtagggaa gggaaagggt tttctttag ggaactggaa	2100
50	ccagcccaca actgcacact tgtgagctgt catggaaacc tgatcccca cagcttttga	2160
	ggttgtttgt ttgtttgttt gtttacctgt cttgggcttt gttgtttttg gcaaaaggta	2220
	cttcaaacaa gggagggcct ggactgaggg ggaccaggtc ttcttgctga cctcgtctac	2280
	aaaggcaaaag gaaggcaaa gaagctgtct cgggtgtttc tgaacaacgt gactcatgag	2340
	gggctttggc tacctcttgc gttcccccta gagatgtcca ggccttacat ttaatcggct	2400
55	ttctctgcgg tggggtagag aatggagctc ccgccttgcg ggcagtgtta aaggtggagc	2460



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5  tgggggattt tcctgggaat gatttgaggg ctcttgaaag cccatgtgtt ccaaagcgtc 2520
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   agctaagaac atgcagctta gtgaggacaa gacccttcta gagctttacc cctaattccc 2760
10 ccccaggagc cccgaggccg gcattattcc tccccattac aggtgatgag cctcaaattc 2820
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   tttttccaat tgtgctgagt ctctactag actcgcttca ttctagcttt ctgcttttac 3060
15 ctttacccta atctttttat ttttatgcta ttgtacttta tttttgtaag ttgctgagat 3120
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<212> Type : DNA

<211> Length : 3192

20        SequenceName : Transcript of CNGH0005trans3

      SequenceDescription :

Custom Codon

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25        Sequence Name : Transcript of CNGH0005trans3

Sequence 12

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<213> OrganismName : Homo sapiens

30        <400> PreSequenceString :

GCSLYS

6

<212> Type : PRT

<211> Length : 6

      SequenceName : Amino acid of Exon 3

35        SequenceDescription :

Sequence 13

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<213> OrganismName : Homo sapiens

40        <400> PreSequenceString :

GMSHCAWPAN AFCAEYTSFR HCQVLFCLSS NSPLEYRGM TTPARPDSS WSHPAPTPGQ

60

LTTAGSSSRL TRGPRGPGIS LGPGCGFYKT VSFMTS

96

<212> Type : PRT

<211> Length : 96

45        SequenceName : Amino Acid Seq of Exon 10

      SequenceDescription :

Sequence 14

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50        <213> OrganismName : Homo sapiens

<400> PreSequenceString :

MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLQ

60

VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTD CR CSCTAPPSSL

120

NPCENEWKME KLKKQAPELL KGCSLYS

147

55        <212> Type : PRT

5 <211> Length : 147  
SequenceName : Amino Acid Seq of CNGH0005trans1  
SequenceDescription :

Sequence 15  
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10 <213> OrganismName : Homo sapiens  
<400> PreSequenceString :

15 MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLDQ 60  
VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTD CR CSCTAPPSSL 120  
NPCENEWKME KLKKQAPPELL KLQSMVDLLE GTLYSMDLMK VHAYVHKVAS QMNTLEESIK 180  
ANLSRENEVV KDSVRHLSEQ LRHYENHSAI MLGIKKELSR LGLQLLQKDA AAAPATPATG 240  
TGSKAQDTAR GKGDISKYG SVQKSFADRG LPKPPKEKLL QVEKLRKESG KGSFLQPTAK 300  
PRALAQQQAV IRGFTYYKAG KQEVTEAVAD NTLQGTSWLE QLPPKVEGRS NSAEPNSAEQ 360  
DEAEPRSSER VDLASGTPTS IPATTTTATT TPTPTTSLLP TEPPSGPEVS SQGREASCEG 420  
20 TLRAVDPPVR HHSYGRHEGA WMKDPAARDD RIYVTNYYG NSLVEFRNLE NFKQGRWSNM 480  
YKLPYNWIGT GHVVYQGAFF YNRAFTKNII KYDLRQRFVA SWALLPDVYV EDTTPWKWRG 540  
HSDIDFAVDE SGLWVIYPAV DDRDEAQPEV IVLSRLDPGD LSVHRETTWK TRLRRNSYGN 600  
CFLVCGILYA VDTYNQEGQ VAYAFDTHTG TDARPQLPFL NEHAYTTQID YNPKERVLYA 660  
WDNGHQLTYT LHFVV 675

25 <212> Type : PRT  
<211> Length : 675  
SequenceName : Amino Acid Seq of CNGH0005trans2  
SequenceDescription :

30 Sequence 16  
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35 <213> OrganismName : Homo sapiens  
<400> PreSequenceString :

35 MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLDQ 60  
VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTD CR CSCTAPPSSL 120  
NPCENEWKME KLKKQAPPELL KLQSMVDLLE GTLYSMDLMK VHAYVHKVAS QMNTLEESIK 180  
ANLSRENEVV KDSVRHLSEQ LRHYENHSAI MLGIKKELSR LGLQLLQKDA AAAPATPATG 240  
TGSKAQGM SH CAWPANAFCA EYTSFRHCQV LFCLSSNSPL EYRGM TTS P ARPDSSWSHP 300  
40 APTPGQLTTA GSSSRLTRGP RGP GISLGPG CGFYKTVSFM TS 342  
<212> Type : PRT  
<211> Length : 342  
SequenceName : Amino Acid Seq of CNGH0005trans3  
SequenceDescription :

45